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(FILE 'HOME' ENTERED AT 09:35:01 ON 25 APR 2007)

FILE 'MEDLINE, BIOSIS, CAPLUS, EMBASE, SCISEARCH, AGRICOLA' ENTERED AT 09:36:18 ON 25 APR 2007

L1 99 SEA ABB=ON PLU=ON ALICYCLOBACILLUS AND PCR
L2 16 SEA ABB=ON PLU=ON L1 AND REAL-TIME
L3 7 DUP REM L2 (9 DUPLICATES REMOVED)
DIS 33 1-7 IBIB
DIS L3 2-7 IBIB
L4 13 SEA ABB=ON PLU=ON L1 AND TAQMAN
DIS L4 ALL IBIB
DIS L4 2-14 IBIB
L5 51 SEA ABB=ON PLU=ON L1 AND 16S
L6 22 DUP REM L5 (29 DUPLICATES REMOVED)
DIS L6 1-22 IBIB

FILE 'STNGUIDE' ENTERED AT 09:48:01 ON 25 APR 2007

FILE HOME

FILE MEDLINE

FILE LAST UPDATED: 24 Apr 2007 (20070424/UP). FILE COVERS 1950 TO DATE.

This file contains CAS Registry Numbers for easy and accurate substance identification.

FILE BIOSIS

FILE COVERS 1969 TO DATE.

CAS REGISTRY NUMBERS AND CHEMICAL NAMES (CNs) PRESENT FROM JANUARY 1969 TO DATE.

RECORDS LAST ADDED: 18 April 2007 (20070418/ED)

FILE CAPLUS

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FILE COVERS 1907 - 25 Apr 2007 VOL 146 ISS 18

FILE LAST UPDATED: 24 Apr 2007 (20070424/ED)

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FILE EMBASE

FILE COVERS 1974 TO 24 Apr 2007 (20070424/ED)

EMBASE is now updated daily. SDI frequency remains weekly (default) and biweekly.

This file contains CAS Registry Numbers for easy and accurate

substance identification.

FILE SCISEARCH

FILE COVERS 1974 TO 19 Apr 2007 (20070419/ED)

SCISEARCH has been reloaded, see HELP RLOAD for details.

FILE AGRICOLA

FILE COVERS 1970 TO 3 Apr 2007 (20070403/ED)

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FILE STNGUIDE

FILE CONTAINS CURRENT INFORMATION.

LAST RELOADED: Apr 20, 2007 (20070420/UP).

=>

Sequence Alignments.

113

1. Sequence alignment of Hristova's primers and probes to the PM1 16S ribosomal RNA gene alignment

```
963F 1 CCTTGACATGTCTAGAAAGTTACCAGAGA 28
      ||||||||||||||||||||
16S 963 CCTTGACATGTCTAGAAAGTTACCAGAGA 990
```

```
1076R 1 GCGGGACTTAACCCAACATCT 21
      ||||||||||||||||
16s 1076 GCGGGACTTAACCCAACATCT 1056
```

```
1030T 1 ACACGAGCTGACGACGGCCATG 22
      ||||||||||||||||
16S 1011 ACACGAGCTGACGACGGCCATG 990
```

2. Sequence alignments of 10/727261 SEQ ID NOs: 1, 2 and 4:

RESULT 9 (SEQ ID NO: 1) FORWARD PRIMER

ID ADW05721

```
Qy 1 GAGCCCGCGGCGCATTAGC 19
    ||||||||||||||||
Db 214 GAGCCCGCGGCGCATTAGC 232
```

RESULT 27 (SEQ ID NO: 4) REVERSE PRIMER

ADW05721/c

```
Qy 1 GCTTGCGCCCATTGCG 16
    ||||||||||||||||
Db 369 GCTTGCGCCCATTGCG 354
```

RESULT 76 (SEQ ID NO: 2) PROBE

ADW05721

```
Qy 1 GCGACGATGCGTAGCCG 17
    ||||||||||||||||
Db 260 GCGACGATGCGTAGCCG 276
```

3. SEQ ID NO:78 (10/727/261) and Alicyclobacillus and Geobacillus rDNA alignments, and SEQ ID NOs: 1,2 and 4 alignments. See pages (2-9).

Seq ID # 4 Reverse
AAAGCTC 420 primer